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Table 1. Demographic characteristics of the study population	
Age (years)	65.8 ± 1.2
Gender	
Male	50.0
Female	50.0
Education (years)	12.5 ± 0.5
Marital status	
Married	60.0
Single	40.0
Occupation	
Retired	70.0
Unemployed	30.0
Income (USD/month)	1,200 ± 150
Health status	
Good	65.0
Fair	35.0
Poor	0.0
Comorbidities	
Hypertension	45.0
Diabetes	30.0
Cholesterol	20.0
Arthritis	15.0
Depression	10.0
Stroke	5.0
Heart disease	5.0
Other	5.0

35

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38

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28

<210> 157
<211> 25
<212> DNA

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<400> 160
aaatatactt atttacgctt gaacctc

27

<210> 161
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (28)..(28)
<223> Cy3 dye

<400> 161
ctcaatagtt ccctcccact gaaagaag

28

<210> 162
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (32)..(32)
<223> Cy3 dye

<400> 162
caaataataa taataataat aataataaat gt

32

<210> 163
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 163
tgcccaatgc tatatgtcag ttgag

25

<210> 164
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 164
taccttcaat cttagtcttg aagtgagggt

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<210> 165
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 165
gtgcctgcaa ctactacaac cgggt

25

<210> 166
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 166
caaaattaca gaagcttcaa attgttgt

28

<210> 167
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<212> DNA
<213> Artificial sequence

<220>
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<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 167
gtaccttcaa gtagcaaggc tgaca

25

<210> 168
<211> 25
<212> DNA
<213> Artificial sequence

<220>

<223> Test nucleic acid sequence

<220>

<221> modified_base

<222> (1)..(1)

<223> Cy5 dye

<400> 168

gtccctttta agcaacctac agggg

25

<210> 169

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Test nucleic acid sequence

<220>

<221> modified_base

<222> (1)..(1)

<223> Cy5 dye

<400> 169

ttcagaacaa tgctgccatc catgc

25

<210> 170

<211> 27

<212> DNA

<213> Artificial sequence

<220>

<223> Test nucleic acid sequence

<220>

<221> modified_base

<222> (1)..(1)

<223> Cy5 dye

<400> 170

aaatatactt atttacgctt gaacctc

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<210> 171

<211> 28

<212> DNA

<213> Artificial sequence

<220>

<223> Test nucleic acid sequence

<220>

<221> modified_base

<222> (1)..(1)

<223> Cy5 dye

<400> 171

ctcaatagtt ccctcccact gaaagaag

28

<220>
 <221> gene
 <222> (1)..(2009)
 <223> Alpha-fetoprotein

<400> 176
 tcccaacttcc agcactgcct gcggtgaagg aacaagcagc catgaagtgg atcacacccg 60
 cttccctcat cctcctgcta catttcgctg cgtccaaagc attgcacgaa aatgagtttg 120
 ggatagcttc cacgttagat tcctcccagt gcgtgacgga gaagaatgtg cttagcatag 180
 ctaccatcac ctttaccagc tttgttccg aagccaccga ggaggaagtg aacaaaatga 240
 ctacgcgatgt gttggctgca atgaagaaaa actctggcga tgggtgttta gaaagccagc 300
 tatctgtgtt tctggatgaa atttgccatg agacggaact ctctaacaag tatggactct 360
 caggtgctg cagccaaagt ggagtggaaa gacatcagtg tctgctggca cgcaagaaga 420
 ctgctccggc ctctgtccca cccttcacgt ttccagaacc tgccgagagt tgcaaagcac 480
 atgaagaaaa cagggcagtg ttcattgaaca ggttcattcta tgaagtgtca aggaggaacc 540
 ccttcattgta tgccccagcc attctgtcct tggctgctca gtacgacaag gtcgttctgg 600
 catgctgcaa agctgacaac aaggaggagt gcttcacgac aaagagagca tccattgcaa 660
 aggaattaag agaaggaagc atgttaaagt agcatgtatg ttcagtgata agaaaatttg 720
 gatccgaaa cctccaggca acaaccatta ttaagctaag tcaaaagtta actgaagcaa 780
 attttactga gattcagaag ctggccctgg atgtggctca catccacgag gagtgttgcc 840
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 gccagttttt gggagacaga aattttgccc aattttcttc agaggaaaaa atcatgttca 1080
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 taagaattgc taaaacgtac caggaaatat tggagaagtg ttcccagtct ggaaatctac 1200
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 tgtccaagca aagctgcgct ctctaccaga ccttaggaga ctacaaatta caaaatctgt 1320
 tccttattgg ttacacgagg aaagcccctc agctgacctc agcagagctg atcgacctca 1380
 ccgggaagat ggtgagcatt gcctccacgt gctgccagct cagcgaggag aatgggtccg 1440
 gctgtggtga gggaatggcc gacattttca ttggacattt gtgtataagg aatgaagcaa 1500
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 gcatcaccag ttttctgagg gatgaaacct atgcccctcc ccatttctct gaggataaat 1620
 tcatcttcca caaggatctg tgccaagctc agggcaaagc cctacagacc atgaaacaag 1680
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tcactgcaga tttctcgggc cttttggaga agtgctgcaa agcccaggac caggaagtct 1800
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 catctccaga aggaagagtg gacaaaaaaa tgtgttgacg ctttggtgtg agccttttgg 1920
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 accttaggaa taaaaacttt tcaactatt 2009

<210> 177
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Test nucleic acid sequence

<400> 177
 taatacgact cactataggg 20

<210> 178
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Test nucleic acid sequence

<400> 178
 tggggctaag cgggatcg 18

<210> 179
 <211> 113
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Test nucleic acid sequence

<400> 179
 gctgcagtaa tacgactcac tataggggct atagctcagc tgggagagcg cttgcctggg 60
 aagcaagagg tcagcggttc gatcccgctt agccccaccg cggcgtccat cca 113

<210> 180
 <211> 67
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Test WT nucleic acid sequence

<400> 180
 ggcgttttgc aaacatacct tcaatcttag tcttgaagtg aggggtgtctg ttgagaatct 60
 ccacctg 67

<210> 181
 <211> 67

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<212> DNA
 <213> Artificial sequence

 <220>
 <223> Test mutant nucleic acid sequence

 <400> 181
 ggcgttttgc aaacatacct tcaatcttag tcttgaagtg agggtatctg ttgagaatct 60
 ccacctg 67

 <210> 182
 <211> 40
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic binding system
 <220>
 <221> modified_base
 <222> (31)..(40)
 <223> pyranosyl RNA

 <400> 182
 accctcactt caagactaag attgaaggta tcttgcattc 40

 <210> 183
 <211> 11
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Test WT rept. nucleic acid sequence
 <220>
 <221> modified_base
 <222> (1)..(1)
 <223> Cy3 dye

 <400> 183
 tctcaacaga c 11

 <210> 184
 <211> 11
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Test mut. rept. nucleic acid sequence
 <220>
 <221> modified_base
 <222> (1)..(1)
 <223> Cy5 dye

 <400> 184
 tctcaacaga t 11

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